

To: Distribution
 From: David M. Jordan
 Date: October 1, 1975
 Subject: Installation of MSS 27.0 and 27.0a

The hardcore system, MSS 27.0, was installed at 8:57 AM on Wednesday, September 24, 1975. This system included the installation of the new reference name table (rnt), fixes for several bugs in the restart_fault-signaller mechanism, and a fix for a bug in the linker. The system libraries were updated at 10:20 AM on Friday, September 26, 1975.

The hardcore system, MSS 27.0a, was installed at 9:00 AM on Thursday, September 25, 1975. This system included an emergency change to remove references to a warning message added in MSS 27.0 which was being treated as an error message by some parts of the system. The system libraries were updated at 10:25 AM on Friday, September 26, 1975.

I. System Change Log

<u>Chng</u>	<u>MCR</u>	<u>Change</u>
1501	1029	Moved the variable which contains the highest ring 0 segment number from active_hardcore_data to active_all_rings_data and added a variable to contain the highest segment number allowed by the system.
	1216	Moved segment reference names from the kst to the new reference name table (rnt).
	1242	Modified delentry to check the copy switch before deleting a segment.
1502	1341	Fixed several security bugs in the restart_fault - signaller mechanism.
1503	1376	Fixed a bug in the creation of additional linkage segments by the linker.

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System Change Log (continued)

<u>Chng</u>	<u>MCR</u>	<u>Change</u>
1504	1216	(MSS 27.0a) Removed unnecessary references to the new error table code used to warn that the usage count on a segment has reached its maximum value. The code was being interpreted in several places as an error and not as a warning.

II. Segment Change Log

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
act_proc.pll	bound_process_creation	R 1501
active_all_rings_data.alm		R 1501
active_hardcore_data.alm		R 1501
append.pll	bound_file_system	R 1501
backup_load.pll	bound_reloader_	R 1501
backup_load_dir_list.pll	bound_reloader_	R 1501
backup_util.pll	bound_reloader_	R 1501
bk_retrieve.pll	bound_reloader_	R 1501
deactivate_segs.pll	bound_process_creation	R 1501
delentry.pll	bound_file_system	R 1501
error_table_.et		R 1501
find_.pll	bound_system_faults	R 1501
find_dirsegno.pll	bound_system_faults	R 1501
find_entry.pll	bound_system_faults	R 1501
fs_get.pll	bound_system_faults	R 1501
fs_search.pll	bound_system_faults	R 1501
get_kstep.pll	bound_system_faults	A 1501
get_pathname_.pll	bound_system_faults	R 1501
init_sys_var.pll	bound_temp_2	R 1501
initialize_kst.pll	bound_process_creation	R 1501
initiate.pll	bound_system_faults	R 1501
initiate_search_rules.pll		
	bound_file_system	R 1501
kst_entry_check.pll	bound_system_faults	D 1501
kst_man.alm	bound_system_faults	D 1501
kstsrch.pll	bound_system_faults	R 1501
link_man.pll	bound_system_faults	R 1503
makeknown.pll	bound_system_faults	R 1501
makeknown_.pll	bound_system_faults	A 1501, R 1504
makestack.pll	bound_file_system	R 1501
makeunknown.pll	bound_system_faults	R 1501
outward_call_handler.pll	bound_system_faults	R 1501
pds.alm		R 1501, 1502
plm.pll	bound_process_creation	R 1501
protection_audit_.pll	bound_system_faults	R 1501

Segment Change Log (continued)

<u>Segment Name</u>	<u>Bound Segment</u>	<u>Change #</u>
reclassify.pll	bound_priv_procs	R 1501
ref_name.pll	bound_system_faults	A 1501
restart_fault.alm		R 1502
salvage_directory.pll	bound_salvager	R 1501
seg_fault.pll	bound_system_faults	R 1501
setfaults.pll	bound_system_faults	R 1501
signaller.alm		R 1502
sum.pll	bound_system_faults	R 1501
terminate.pll	bound_system_faults	A 1501
unsnap_service.pll	bound_file_system	R 1501
unthread_kste.pll	bound_system_faults	A 1501
validate_entryp.pll	bound_system_faults	A 1501

Include Files

ahd.incl.pll	R 1501
backup_record_types.incl.pll	R 1501
kst.incl.pll	R 1501
kst_entry.incl.pll	D 1501
kst_header.incl.pll	D 1501
kst_util.incl.pll	D 1501
makeknown_info.incl.pll	A 1501
rnt.incl.pll	A 1501

Bind Files

bound_system_faults.bind	R 1501
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III. Bound Segment Change Log

<u>Bound Segment</u>	<u>Change</u>
bound_file_system	Replaced append delentry initiate_search_rules makestack unsnap_service
bound_priv_procs	Replaced reclassify
bound_process_creation	Replaced act_proc deactivate_segs initialize_kst plm

Bound Segment Change Log (continued)

<u>Bound Segment</u>	<u>Change</u>
bound_reloader_	Replaced backup_load backup_load_dir_list backup_util bk_retrieve
bound_salvager	Replaced salvage_directory
bound_system_faults	Added get_kstep makeknown_ ref_name_ terminate_ unthread_kste validate_entryp
	Replaced find_ find_dirsegno find_entry fs_get fs_search get_pathname_ initiate kstsrch link_man makeknown makeunknown outward_call_handler protection_audit_ seg_fault setfaults sum
	Deleted kst_entry_check kst_man
bound_temp_2	Replaced init_sys_var

IV. Header Change Log

<u>Change #</u>	<u>Change</u>
1501	Deleted the names kstsrch and kst_man and added the names get_kstep, makeknown_, and terminate_ to the header entry for bound_system_faults.